

IN THE CLAIMS

Please amend the claims as follows:

1. (original) A transflector comprising a suspended particle device (1).

2. (original) A transflector according to claim 1, wherein the suspended particle device (1) is configured to apply one or more electric fields to a particle suspension (2).

3. (original) A transflector according to claim 2, wherein the suspended particle device (1) is configured to apply to the particle suspension (2) two electric fields with mutually orthogonal orientations.

4. (currently amended) A transflector according to claim 2 or 3, wherein the suspended particle device (1) is configured to apply an electric field to the particle suspension (2) intermittently.

5. (currently amended) A transflector according to ~~any one of claims 1 to 4~~ claim 1, wherein the suspended particle device (1) is configured to switch the particle suspension (2) into one of:

a transmissive state; and

a reflective state.

6. (original) A transflector according to claim 5, wherein the suspended particle device (1) is configured to tune transmittance and reflectance properties of the particle suspension (2) to values intermediate to those associated with said transmissive and reflective states.

7. (currently amended) A transflector according to ~~any one of the preceding claims~~claim 1, further configured to tune its transmittance and reflectance properties in accordance with an output of a light sensor (14).

8. (original) A transflective display (15) comprising:

a display device (16); and

a transflector (1);

wherein said transflector (1) is a suspended particle device.

9. (original) A transflective display (15) according to claim 8, wherein the suspended particle device (1) is configured to apply one or more electric fields to a particle suspension (2).

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10. (original) A transflective display (15) according to claim 9, wherein the suspended particle device (1) is configured to apply to the particle suspension (2) two electric fields with mutually orthogonal orientations.

11. (currently amended) A transflective display (15) according to claim 9 or 10, wherein the suspended particle device (1) is configured to apply an electric field to the particle suspension (2) intermittently.

12. (currently amended) A transflective display (15) according to ~~any one of claims 8 to 11~~claim 8, wherein the suspended particle device (1) is configured to switch the particle suspension (2) into one of:

a transmissive state; and

a reflective state.

13. (original) A transflective display (15) according to claim 12, wherein the suspended particle device (1) is configured to tune transmittance and reflectance properties of the particle suspension (2) to values intermediate to those associated with said transmissive and reflective states.

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14. (currently amended) A transflective display (15) according to ~~any one of claims 8 to 13~~claim 8, wherein the display device (16) is a liquid crystal display device.

15. (currently amended) A transflective display (15) according to ~~any one of claims 8 to 13~~claim 8, wherein the display device (16) is one of:

- an electrophoretic display;
- an electrochromic display;
- an electro-wetting display; and
- a micromechanical display.

16. (currently amended) A ~~transflective display~~ (15) according to ~~any one of claims 8 to 15~~claim 8, further comprising a light source (17).

17. (currently amended) A ~~transflective display~~ (15) according to ~~any one of claims 8 to 16~~claim 8, further comprising a quarter-wave plate (22).

18. (original) A ~~transflective display~~ (15) according to claim 16, further comprising a quarter-wave plate (22) positioned between the suspended particle device (1) and light source (17).

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19. (currently amended) A transflective display (15) according to ~~any one of the preceding claims~~claim 1, further comprising a light sensor (14).

20. (original) A method of operating a transflector (1), comprising tuning transmittance and reflectance properties of the transflector (1) by controlling alignments of particles within a particle suspension (2).

21. (original) A method according to claim 20, further comprising:

detecting a level of ambient light (21) in the vicinity of the transflector (1).

22. (original) A method of displaying an image, comprising the steps of:

displaying an image on a display device (16); and providing illumination for a display device (16); wherein the step of providing said illumination comprises tuning transmittance and reflectance properties of a transflector (1) by controlling alignments of particles within a particle suspension (2).

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23. (original) A method according to claim 22, wherein the step of providing illumination for the display device (16) further comprises operating a light source (17).

24. (currently amended) A method according to claim 22 or 23, further comprising:

detecting a level of ambient light in the vicinity of the display device (16).

25. (currently amended) A method according to ~~any one of claims 20 to 24~~ claim 20, wherein the transflector (1) is tuned in accordance with an output signal of a light sensor (14).

26. (currently amended) A method according to ~~any one of claims 20 to 25~~ claim 20, wherein the tuning of the transflector (1) comprises applying one or more electric fields to the particle suspension (2).

27. (original) A method according to claim 26, wherein the tuning of the transflector (1) comprises applying to the particle suspension (2) two electric fields with mutually orthogonal orientations.

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28. (currently amended) A method according to claim 26—or 27, wherein the one or more electric fields are applied to the particle suspension (2) intermittently.

29. (currently amended) A method according to ~~any one of~~ claims 20 to 28~~claim 20~~, wherein the step of tuning the transreflector (1) comprises switching the particle suspension (2) into one of;

a transmissive state; and
a reflective state.

30. (currently amended) A method according to ~~any one of~~ claims 20 to 29~~claim 20~~, wherein the step of tuning the transreflector (1) comprises tuning its transmittance and reflectance properties to intermediate values within a range of achievable transmittances and reflectances respectively.

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